

Solar Problem



- Solar Not Competitive, Esp. US, Where Electricity Alternative
 - * Present Course/Speed Consistent 1999 Roadmap-2020

- Issue is Cost & Efficiency
 - * Base Material Cost
 - * Packaging Cost
 - * Manufacturing Costs
 - * Installation Costs
 - * Portability/Flexibility of Solutions

Solar Solution



3rd Generation Solar Cells

- SolarAMP Is Leader In This Solution
 - * 3rd Generation Organic Nanotech Solution
 - * Low Active PV Material Cost
 - "Pennies Per Square Meter"
 - * Can Be Integrated Into Building Materials
 - Thin, Flexible, "Transparent"
 - * Simple Manufacturing Process
 - Target- Match non-PV Package, ie. Windows

SolarAMP RENEWABLE ENERGY SOLUTIONS

SolarAMP Mission & Requirements

- Mission
 - Commercialize Proprietary LARTec Solution(Light Absorbing Rod Technology) Through Partnerships with Key Segment Leaders
- Objectives For NREL Conference
 - Initiate Contacts for Commercialization Round
 - Identify Partners with Complimentary Skills and Capabilities

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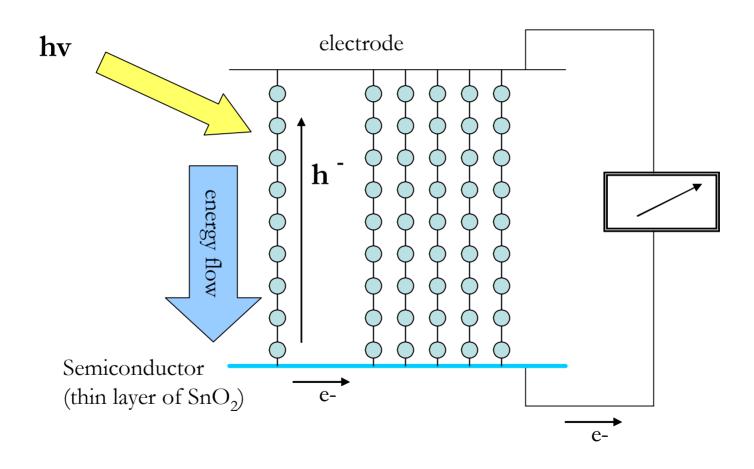
The LARTec Solution



- Dye Sensitized Nanotechnology PV Solution
- Uniqueness
 - Single Organic Material for Light Absorbtion and Exiton/Hole Transfer
 - Longer Lived and Directed Exitons
 - Engineered Molecular Structure For Photosynthesis Emulation
- Result
 - Lower Cost/Higher Potential Efficiency than Competing Known Nanotech Solutions
- Position Supported By Large Body of IP/ Leading Experts
 Enhancing the Position
- Key Customers-Traditional/Non-Traditional Solar Suppliers
 - Specific Application Focus with Manufacturing/Distribution
 - Early Focus on Building Integrated PV Solution Providers







SolarAMP Business Model



- SolarAmp is a Commercialization Company
 - Drive Industry Leading Technology R&D
 * Target- Photosynthesis (25-35% Efficiency)
 - Protected Intellectual Property
 * 5 Issued Patents, 12 Filed Disclosures/Extensions
 - Experience & Ability to Partner for Commercialization
- Go To Market With Partners Where:
 - Specific Manufacturing & Channel Expertise Exists
 - Opportunity Leverages LARTec Solution Values
 - Early Access Where Low Cost 10% Efficient Solution Has High Value

Solar/SolarAMP Opportunity - 2013



Base

\$40 Billion

(1.5% of total estimated world energy demand)

Expanded

\$80 Billion

Target

\$250 to \$500 Billion Existing Market Standard Products

Organic PV Modules
Changes the Playing Field With
Dramatically Increased Return on
Investment For Solar Energy

Flexible Portable PV Modules Off Grid Applications, Portable PV Modules

Industry and Competitive Keys

- Solar Must Expand Through 2nd/3rd Generation "Film" Solutions
- Early a-Si, CdTe, CIS Solutions Need to Prove Low Cost Solar
- Early Nanotech Needs Success, ie Konarka
- SolarAMP Needs Differentiate re:Nano Solutions, ie NanoSys/NanoSolar

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SolarAMP Team



- William Conklin-Managing Principal
 - Large Company Expertise, "Startup" Business/Markets
- Dr. Jonathan Lindsey- Lead Technical Principal
 - World Recognized Leader Synthetic Chemistry
 - Leads Base Technology Activities
 - Zettacore Founder
- Dr. Gregory Parsons-Lead Packaging Activities
 - Chemical Engineer- Focus is Surface Technologies
- Other Key People(total 11, including contractors)
 - Dr. David Bocian-Charge Migration
 - Dr. Dewey Holton-Light Gathering
 - Dr. Gerald Meyers-Solar Cell Fabrication

Financial



- Investment
 - To Date \$1.05M Raised
 - * Burn Rate \$350K/Year
 - Require \$5M to Commercialize 1st Product & Drive Technology
 - * \$2M Initial, \$1.5M/year Two Years
- Uses of Funds
 - To Date 90%+ Sponsored Research & IP
 - Additional
 - * \$2.5M to Drive 1st Product With Partner
 - * \$2M Base Technology
 - * \$.5M to Initiate 2nd Product Partnership
- Self Sufficient 2007

Achievements



- Company Formed 2000
 - Completed "Thick Liquid" Prototype-4%
 - Initial Disclosures Filed
- Operational 2001
 - Initial Funding & Exclusive LARTec Solution License
- Key 2002 Achievements
 - BP Teaming Relationship-Plan for Early Solid State Solution
 - Issuance of Key Patents
- 2003/2004
 - Completion of Key Checkpoints for 5% Solid State Cell
 - Base Technology for 10% Commercial Product
- Next Steps
 - Complete Commercial Sample Plan
 * Initial Target 5% Architectural Glass Solution
 - Initiate Commercialization Funding Round
 - Close with Early Commercialization Partners

Summary



- 3rd Generation Key to Solar Competitiveness
- SolarAMP Has Leading 3rd Generation Technology
- Early Commercialization Opportunities Exist
- Look To Close Relationships 1Q2005
 - Financial
 - Early Commercial Solution Relationship
- Want To Discuss Further At Your Convenience